Digital thesaurus: metadata resources for marine biology
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INTRODUCTION

These two arguments favoring the domestic development of advanced digital thesaurus and metadata in marine science:

1) promotion of domestic learning; a research strategy decision means that, in an information-equivalent translation, it is required to break through a wide range of national barriers, in pursuit of a systematic identification of all relevant potential bibliographical material.

2) the acquisition of technical knowledge is the major benefit expected of the new model. To develop R&D in this field, a wide range of scientific resources are available within the Web, a marketing channel has been developed. The four universities with Ms.D. studies on marine sciences, the spanish council for scientific research (CSIC), the spanish institute for the oceanography (IEO), and the spanish network for the R&D (Network RIS) have been focused on. The assessment is performed with the vision that there is no fixed, universal technology transfer process common to all Institutions. Financial metrics have been discarded as particularly disadvantageous for international R&D research fields. Instead of this, a helpful reference point have resulted from the thematic groups oriented framing professional and academic networks. The study indicates the advantages of being able to mount the results of the metadata work on the internet. It presents the thesis of iSOMAR (Marine Sciences Institute of Andalusia) and will be available to make sense of the web-based contents on the intranet of the library.

RESULTS AND DISCUSSION

MsD studies, in marine sciences, in Spain. Metadata Available from 27-12-93, the web page of the Ms.D. in Sea Sciences offered through a webpage, URL: http://www.uvigo.es/w/centros/ciencias/index.html, where the program of the Ms.D. course is implemented and maintained. The digital thesaurus is a tool, the Metadata value "Generator" is displayed. It has been shown that an Ms.D. in Sea Sciences, offered by the Faculty of Sciences (University of Alicante), at the web page of the Ms.D. course, it is illustrated of the contents of the degree course.

The RedIris (the spanish academic internet network) resource in marine sciences, the Maritime Forum (http://tierra.rediris.es/marinet/marine.english.html), offers the best metadata-information set directly affecting the research agenda of those concerned with events in the area. Mediated By Dr. Somova from the Spanish Geological and Mining Institute (Madrid) its competitive strategy offers to the researchers and search robots 13 keywords. Its metadata values exemplify the IRIS activities into virtual communities hosted at their servers and the perceivable policy of support to metadata-information.

The metadata values are: "Content-type", "keywords", "description", CVU.Code, CVU.Name, Classification, DC.Description, DC.Format, DC.Subject, DC.Title, Description, Generator.

Digital thesaurus online:

Only two digital thesaurus are concerned with marine sciences in Spain. Both come from the council for scientific research (CSIC) web resource. They are the Thesaurus of Animal Biology [10], and the Glossary of Aquaculture Terminology [4].

The specification of XML version 1.0 was released in February 1998, and during the three years it has passed then it seems that only the CSIC digital thesaurus (both previous to 1998) are available. The Ms.D. course in Cádiz and Las Palmas because of the presence there of specific Faculties of Sea Sciences, at present state of art in Spain bears an explicit extraction from the council for scientific research (CSIC) web resource. The success elements referred as Thesaurus of Animal Biology [3], and Glossary of Aquaculture Terminology [4], as two remarkably success histories, are kept for the time of analysis in this presentation.

CONCLUSION

Lack of metadata standardization and very slow use of the Dublin Core metadata should be the two main reasons to the hope of increased standardization of these digital resources on the web (34% of the web pages are defined with only 34% of the metadata in their pages). This is completely different in the scientific community and only one virtual community in the field in question is able to be institutionally supported. This is the RedIris project of the spanish academy of sciences and technology. It is gathered together 13 keywords. Its metadata values exemplify the IRIS activities into virtual communities hosted at their servers and the perceivable policy of support to metadata-information.

The metadata values are: "Content-type", "keywords", "description", CVU.Code, CVU.Name, Classification, DC.Description, DC.Format, DC.Subject, DC.Title, Description, Generator.

The digital thesaurus of iSOMAR (Marine Sciences Institute of Andalusia) (CSCS, Puerto Real).

A digital publication available to make sense of the web-based contents on the intranet of the library, of the Marine Sciences Institute of Andalusia. To gain additional insights to the suitable model of the web graphs resulting to distinctly Index each paper extracted from the curriculum vitae of the researchers working in the laboratories were designed. It resulted in a thesaurus with a index of 318 keywords, and an annual index with 11 entries. The thesaurus is supported by the need to organise 253 papers. Indicating several alternative options users can select the thesaurus (as much as all the subjects of the digital objects of the library of iSOMAR is previewed from Rediris (R+D spanish academic network), at the web page of the Ms.D. course, it is illustrated of the contents of the degree course.

The meta-information available for the query string syntax of the digital thesaurus, allow for several metadata Dublin Core values. DC.Title, creator, subject, description, publisher, date, language, rights allow the user to define the service information universe by setting mandatory keywords and by specifying an annual or a subject-oriented filter. An specific access to the digital objects of the library of iSOMAR is previewed from Rediris (R+D spanish academic network), at the web page of the Ms.D. course, it is illustrated of the contents of the degree course.

REFERENCES